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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/400,442	09/21/1999	JEAN-CLAUDE SARFATI	2182.0380001	3447
75	90 06/17/2004		EXAMII	NER
STERNE KESSLER GOLDSTEIN & FOX P.L.L.C.			HA, LEYNNA A	
ATTORNEYS AT LAW 1100 NEW YORK AVENUE N.W.		ART UNIT	PAPER NUMBER	
SUITE 600 WASHINGTON, DC 20005-3934			2135 DATE MAILED: 06/17/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Detentions of time may be available under the previous of 37 CFR 1.135(s). In no event, however, may a reply be timely filled The period for reply specified above is less than thany (30) days, a reply within the statisticy primitum of thiny (30) factor (30) Months of the manufacture of the control of the period for reply specified above, the manufacture of 37 CFR 1.135(s), in no event, however, may a reply be timely filled If the period for reply specified above, the manufacture of 37 CFR 1.135(s), in no event, however, may a reply be timely filled If the period for reply specified above, the manufacture of 37 CFR 1.135(s), in no event, however, may a reply be timely filled or reply specified by the Office later than three months after the malling date of this communication, even if timely filled, may reduce any centred pretent term adjustment. See 37 CFR 1.704(s). Status 1) Responsive to communication(s) filled on 66 April 2004. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-52 is/are pending in the application. 4a) Of the above claim(s) 1-21,26,29-46,51 and 54-56 is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) is/are allowed. 6) Claim(s) is/are allowed. 7) Claim(s) is/are solpicated to by the Examiner. 10) The drawing(s) filled on is/are: a) accepted or b) objected to by the Examiner. Application Papers 9) The specification is objected to by the Examiner. Application Papers 9) Achonowhedgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) Certified		Application No.	Applicant(s)				
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Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Estatement of time must be available under the provision of 3°CRR 1.13(a), in no event, however, may a reply be timely field Estatement of time must be available under the provision of 3°CRR 1.13(a), in no event, however, may a reply be timely field Estatement of time must be available under the provision of 3°CRR 1.13(a), in no event, however, may a reply be timely field Estatement of time plus applied above is less them they (30) days, and provided above is the set of them they (30) days, and the part of them they (30) days, and the part of them they (30) days, and the considered limity). If the petiod for reply applied above is less them they (30) days, and the part of them they (30) days, and the considered limity). If the petiod for reply applied above, the maximum datalory petiod all apply within the action control and the part of them them and the part of them them to the part of them the part of them them and the part of them and the part of them applied to the communication. Part of the petiod for reply applied to the part of the maximum days of the communication. Part of the part of them and the part of the maximum days of the communication and the part of th	Office Action Summary	Examiner	Art Unit				
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DETAILED ACTION

1. Claims 22-25,27-28,47-50,52-53, and 57 have been examined. Claims 1-21, 26, 29-46, 51, and 54-56 have been canceled by Applicant. This is a FINAL rejection necessitated by new grounds of rejection.

2. Claims 22-25,27-28,47-50,52-53, and 57 are rejected under of 35 U.S.C. 103(a).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

3. Claims 22-25, 27-28, 47-50, 52-53, and 57 are rejected under 35 U.S.C. 103(a) as being unpatentable over Rohatgi, Et Al. (US 5,625,693) and further in view of Tremblay, Et Al. (US 6,014,723).

As per claim 22:

Rohatgi discloses generating a signature for the data (col.5, lines 46-65) to be downloaded and encrypting the signature using a private key (col.8, lines 37-66). See also col.10, lines 35-67. Further, Rohatgi discusses transmitting the Directory module with the signature that includes a flag that is designated

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to select one of the public keys that should be use to decrypt (col.6, lines 22-42) to provide a decrypted signature wherein is used to compare with the signature generated at the receiver decoder (col.16, lines 7-26). Rohatgi includes a Module Transmission Unit Byte Offset to indicate the byte location in the module with the signature and other data of a payload (col.4, lines 44-48). An offset (i.e. a relative address) locates a particular item such as the signature and/or other types of data in a payload. However, Rohatgi does not provide looking up the offset stored in the memory area of the receiver/decoder.

Tremblay disclose a look-up switch accelerator that includes an associative memory with stores information associated with one or more lookup switch statements such as a plurality of match values and a corresponding plurality of jump offset values. The lookup switch accelerator enhances the performance of the hardware processor in retrieving the offset values and determining whether the current instruction received by the processor corresponds to the lookup switch statement (col.22, lines 20-54).

It would have been obvious for a person of ordinary skill in the art to combine the teaching of the offset of Rohatgi with a lookup switch accelerator to enhance the performance of the processor for looking up the offset stored in the memory and that it is obvious the offset is to first locate the signature and data in order to extract the signature so that it can be compared to the corresponding signature of the receiver/decoder.

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As per claim 23:

Rohatgi the extracted signature and the generated signature are compared (col.5, line 42 thru col.6, line 40). See also col.12, line 41 thru col.13, line 23. Rohatgi discuss the Table I, which includes a Module Transmission Unit Byte Offset to indicate the location in the module of the payload (col.4, lines 44-48). Rohatgi restarts (repeats) the steps of look-up, extracting, and comparing the signature (col.15, line 60 thru col.16, line 67). See also Figure 5.

As per claim 24: See col.4, lines 10-29; discussing some of the data is dummy or arbitrary data.

As per claim 25:

Rohatgi discloses the directory table and module tables are transmitted in an MPEG bit stream (col.3, lines 12-26) where at the receiver decoder for receiving MPEG bit stream (col.4, lines 40-41).

Rohatgi teaches downloading one of the Directory (MPEG) modules having the predetermined TID extension of the module MPEG tables (col.16, lines 50-66). Also see Figure 4. Rohatgi discloses generating a signature for the data (col.5, lines 46-65) to be downloaded and encrypting the signature using a private key (col.8, lines 37-66). See also col.10, lines 35-67. Further, Rohatgi discusses transmitting the Directory module with the signature that includes a flag that is designated to select one of the public keys that should be use to decrypt (col.6, lines 22-42) to provide a decrypted signature wherein is

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used to compare with the signature generated at the receiver decoder (col.16, lines 7-35).

As per claim 27:

Rohatgi teaches discarding or aborting downloading the generated module if the generated module is not authentic wherein the Examiner asserts does not match to the respective Directory module (col.15, lines 43-46).

As per claim 28:

Rohatgi teaches if the generated signature is not authentic (or comparable) to the decrypted signature, then discarding or aborting downloading the data (col.15, lines 43 thru col.16, lines 66).

As per claim 47:

Rohatgi discloses receiving compressed video signals in MPEG form (col.3, lines 11-28) wherein generating a signature for the data (col.5, lines 46-65) to be downloaded and encrypting the signature using a private key (col.8, lines 37-66). See also col.10, lines 35-67. Further, Rohatgi discusses transmitting the Directory module with the signature that includes a flag that is designated to select one of the public keys that should be use to decrypt (col.6, lines 22-42) to provide a decrypted signature wherein is used to compare with the signature generated at the receiver decoder (col.16, lines 7-26). Rohatgi includes a Module Transmission Unit Byte Offset to indicate the byte location in the module with the signature and other data of a payload (col.4, lines 44-48). An offset (i.e. a relative address) locates a particular item such as

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the signature and/or other types of data in a payload. However, Rohatgi does not provide looking up the offset stored in the memory area of the receiver/decoder.

Tremblay disclose a look-up switch accelerator that includes an associative memory with stores information associated with one or more lookup switch statements such as a plurality of match values and a corresponding plurality of jump offset values. The lookup switch accelerator enhances the performance of the hardware processor in retrieving the offset values and determining whether the current instruction received by the processor corresponds to the lookup switch statement (col.22, lines 20-54).

It would have been obvious for a person of ordinary skill in the art to combine the teaching of the offset of Rohatgi with a lookup switch accelerator to enhance the performance of the processor for looking up the offset stored in the memory and that it is obvious the offset is to first locate the signature and data in order to extract the signature so that it can be compared to the corresponding signature of the receiver/decoder.

As per claim 48:

Rohatgi discuss the Table I, which includes a Module Transmission Unit Byte Offset to indicate the location in the module of the payload (col.4, lines 44-48). Rohatgi restarts (repeats) the steps of look-up, extracting, and comparing the signature (col.15, line 60 thru col.16, line 67). See also Figure 5.

As per claim 49: See col.15, lines 18-26; discussing rewritable non-volatile memory.

As per claim 50:

Rohatgi discloses generating a signature for the data (col.5, lines 46-65) to be downloaded and encrypting the signature using a private key (col.8, lines 37-66). See also col.10, lines 35-67. Further, Rohatgi discusses transmitting the Directory module with the signature that includes a public key for decrypting (col.6, lines 22-42) and to provide a decrypted signature wherein is used to compare with the received signature with the respective signature generated at the receiver decoder (col.16, lines 7-67).

As per claim 52:

Rohatgi teaches discarding or aborting downloading the generated module if the generated module is not authentic wherein the Examiner asserts does not match to the respective Directory module.

As per claim 53:

Rohatgi teaches if the generated signature is not authentic (or comparable) to the decrypted signature, then discarding or aborting downloading the data (col.15, lines 43 thru col.16, lines 66).

As per claim 57:

Rohatgi discloses receiving compressed video signals in MPEG form from a transmitter (col.2, lines 36-38) wherein generating a signature for the data (col.5, lines 46-65) to be downloaded and encrypting the signature using a

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private key (col.8, lines 37-66). See also col.10, lines 35-67. Further, Rohatgi discusses transmitting the Directory module with the signature that includes a flag that is designated to select one of the public keys that should be use to decrypt (col.6, lines 22-42) to provide a decrypted signature wherein is used to compare with the signature generated at the receiver decoder (col.16, lines 7-26). Rohatgi includes a Module Transmission Unit Byte Offset to indicate the byte location in the module with the signature and other data of a payload (col.4, lines 44-48). An offset (i.e. a relative address) locates a particular item such as the signature and/or other types of data in a payload. However, Rohatgi does not provide looking up the offset stored in the memory area of the receiver/decoder.

Tremblay disclose a look-up switch accelerator that includes an associative memory with stores information associated with one or more lookup switch statements such as a plurality of match values and a corresponding plurality of jump offset values. The lookup switch accelerator enhances the performance of the hardware processor in retrieving the offset values and determining whether the current instruction received by the processor corresponds to the lookup switch statement (col.22, lines 20-54).

It would have been obvious for a person of ordinary skill in the art to combine the teaching of the offset of Rohatgi with a lookup switch accelerator to enhance the performance of the processor for looking up the offset stored in the memory and that it is obvious the offset is to first locate the signature and

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data in order to extract the signature so that it can be compared to the corresponding signature of the receiver/decoder.

***For further details and description of the above rejections, see Rohatgi, Et Al. and Tremblay, Et Al. on COL.5 line 15...Et. SEQ.

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Rowe, Et Al. (US 5,737,599)

Leighton (US 5,949,885)

5. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37

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CFR 1.136(a) will be calculated from the mailing date of the advisory action. In

no event, however, will the statutory period for reply expire later than SIX

MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to LEYNNA T. HA whose telephone number is (703) 305-

3853. The examiner can normally be reached on Monday - Thursday (7:00 - 5:00PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Kim Vu can be reached on (703) 305-4393. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR

only. For more information about the PAIR system, see http://pair-direct.uspto.gov.

Should you have questions on access to the Private PAIR system, contact the

Electronic Business Center (EBC) at 866-217-9197 (toll-free).

LHA

June 8, 2004

GILBERTO BARRON

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